ELSEVIER

Information Processing Letters 66 (1998) 327–328

Information Processing Letters

Subject Index Volume 66 (1998)

2-Acyclic family of subtrees 1

Acyclic relational database 1
Ádám property 149
Algorithms 1, 27, 35, 59, 65, 81, 87, 109, 115, 119, 127, 141, 161, 181, 209, 291, 299
Amortized analysis 175
Analysis/design of algorithms 41
Approximation 165
Approximation algorithms 81
Average distance 215

Barrier synchronization 247
Binary decision diagram 195
Bipartite 125
Block cipher 317
Boolean hierarchy 13
Boolean sums 53
Bounded-degree processor networks 269
Broadcasting 93, 181, 321
Bulk Synchronous Parallel (BSP) model 247
Bushiness 49
Butterfly 59

Cauchy's formula 171
Chromatic index 115
Circulant graphs 149
Circular visibility 119
Circularly-hidden surface removal 119
Circularly-visible 119
Class hierarchy 309
Codes 21
Combination set operations 195
Combinatorial problems 41, 59, 165
Common-multiplicand multiplication 105
Communication networks 127
Competitive analysis 27
Complement graph 209
Complete graphs 115
Complexity 7, 291
Computation model 255
Computational complexity 41, 53, 65, 161, 165, 187, 209
Computational geometry 49, 133, 171, 187, 277
Computer arithmetic 155
Concurrency 285
Connectivity 209
Constraint satisfaction 41
Constraint satisfaction problem 195
Contact 125
Contention analysis 255
Contour lines 171
Cryptography 21, 105, 155, 317

Data structures 165
Differential attack 317
Distributed computing 175
Dominance searching 277
Double loop network 201
Duration Calculus 7
Dynamic programming 35

Economics of computation 263
Edge coloring 115
Exact bounds 59
Exhaustive search algorithm 87

Fairness 71
Fast exponentiation 105
Fault tolerance 93, 201, 285, 321
Feedback vertex set 59
Financial games 27
Finite state machine minimization 165
Floating point arithmetic 109

Genetic programming 299
Geometric inequalities 171
Geometric optimization 171
Graph drawing 133
Graph isomorphism 149, 215
Graph representation 209
Graph search 209

Hamiltonian circuit 141
Hamiltonian cycle 171, 201
Hichart 187
Hidden surface removal 119
Hypercube 93, 321

Elsevier Science B.V.

Interconnection networks 141, 149, 215, 269
Intersection graph of subtrees 1
Interval graphs 65
Irredundant set 65

Latin square 141
Line segments 125
Linear cellular automaton 101
Local map 101

Maximal dynamic flows 127
Maximum flow 291
Memory hierarchy 255, 263
Mesh 59
Message-passing architectures 247
Minimal matching 161
Minimum cost flow 291
Minimum transmission time 127
Minkowski sum 171
Modular arithmetic 105
Modular exponentiations 155
Motion planning 171
Multi-level memory hierarchy 231
Multicast 87

Neighborhood chordal graph 1
Network flow 109
NP-completeness 87, 291
NP-hardness 81
Number theory 155

Object-oriented 309
On-line algorithms 27
Orthogonal 125

Parallel algorithms 223, 285
Parallel machines 255
Parallel map 101
Parallel models 237
Parallel processing 231, 247, 255
Parallel queries 13
Performance analysis 263
Performance evaluation 223, 237, 263
Persistence 277
Planar 125
Plus hierarchy 13
Polygon search 49
Prediction 237
Prefix codes 35
Probabilistic processes 71
Problem of Zarankiewicz 53
Programming language 309
Propositional Duration Calculus 7
Pruning search space 87
Public key cryptosystem 105

Quadrangle inequality 35
Query order 13
Quickest paths 127
Quorumcast routing 87

Random number generator 317
Read-once branching programs 53
Real time systems 7
Real-time and work-preserving emulations 269
Recursive circulant graph 141
Restriction and exclusion operators 195
Runtime prediction 255

Scalability 223
Search number 49
Self-stabilization 285
Sequences 21
Shortest paths 127
Software engineering 309
Spanning tree 81
Star free expressions 7
Star graph 321
Symbolic regression 299
Symmetric-difference hierarchy 13

Theory of computation 101
Tidy drawing problem 187
Tree drawing 133
Tree layout 187
Tree-structured diagram 187
Two-way currency trading 27

Unified architecture 231
Unlabeled hypercube 181

Verification 71

Worst-case bound 49

Zero-suppressed BDD 195

ELSEVIER

Information Processing Letters 66 (1998) 329–331

Information Processing Letters

Author Index Volume 66 (1998)

Althaus, E. and **K. Mehlhorn**, Maximum network flow with floating point arithmetic 66 (1998) 109
Anzai, K., *see* **Miyadera, Y.** 66 (1998) 187

Baek, N. and **S.-Y. Shin**, On circularly-hidden surface removal 66 (1998) 119
Baier, C. and **M. Kwiatkowska**, On the verification of qualitative properties of probabilistic processes under fairness constraints 66 (1998) 71
Banicescu, I., *see* **Luke, E.A.** 66 (1998) 223
Bollig, B. and **I. Wegener**, A very simple function that requires exponential size read-once branching programs 66 (1998) 53

Cabrelli, C.A. and **U.M. Molter**, A linear time algorithm for a matching problem on the circle 66 (1998) 161
Campbell, D.K.G., On the CLUMPS model of parallel computation 66 (1998) 231
Chang, M.-S., **P. Nagavamsi** and **C. Pandu Rangan**, Weighted irredundance of interval graphs 66 (1998) 65
Chen, J.-L. and **F.-J. Wang**, An inheritance flow model for class hierarchy analysis 66 (1998) 309
Chen, R.-J., *see* **Chiang, W.-K.** 66 (1998) 215
Chiang, W.-K. and **R.-J. Chen**, On the arrangement graph 66 (1998) 215
Chiu, G.-M., A fault-tolerant broadcasting algorithm for hypercubes 66 (1998) 93
Chuang, Y.-C., *see* **Sung, T.-Y.** 66 (1998) 201
Chung, I., *see* **Kim, S.** 66 (1998) 141
Chwa, K.-Y., *see* **Shin, C.-S.** 66 (1998) 133
Czyzowicz, J., **E. Kranakis** and **J. Urrutia**, A simple proof of the representation of bipartite planar graphs as the contact graphs of orthogonal straight line segments 66 (1998) 125

Dannoura, E. and **K. Sakurai**, An improvement on El-Yaniv–Fiat–Karp–Turpin's money-making bi-directional trading strategy 66 (1998) 27
De Marco, G. and **U. Vaccaro**, Broadcasting in hypercubes and star graphs with dynamic faults 66 (1998) 321
De Roure, D., *see* **Salhi, A.** 66 (1998) 299
Diks, K., **S. Dobrev**, **E. Kranakis**, **A. Pelc** and **P. Ružička**, Broadcasting in unlabeled hypercubes with a linear number of messages 66 (1998) 181
Dimitrov, V.S., **G.A. Jullien** and **W.C. Miller**, An algorithm for modular exponentiation 66 (1998) 155
Ding, C. and **T. Helleseth**, On cyclotomic generator of order r 66 (1998) 21
Dobrev, S., *see* **Diks, K.** 66 (1998) 181

Fekete, S.P. and **W.R. Pulleyblank**, Traveling the boundary of Minkowski sums 66 (1998) 171
Feuerstein, E., **S. Leonardi**, **A. Marchetti-Spaccamela** and **N. Santoro**, Efficient token-based control in rings 66 (1998) 175

Gavril, F. and **O. Shmueli**, Intersection graphs of k-acyclic families of subtrees and relational database query processing 66 (1998) 1
Glaser, H., *see* **Salhi, A.** 66 (1998) 299

Ha, J.-C. and **S.-J. Moon**, A common-multiplicand method to the Montgomery algorithm for speeding up exponentiation 66 (1998) 105
Ha, S., *see* **Kim, J.-S.** 66 (1998) 247
Hambrusch, S.E., Preface to the Special Issue on Parallel Models 66 (1998) 221
Helleseth, T., *see* **Ding, C.** 66 (1998) 21
Hirata, K., *see* **Shimozono, S.** 66 (1998) 165
Hower, W., Revisiting global constraint satisfaction 66 (1998) 41
Hsieh, T.-M., **Y.-S. Yeh**, **Y.-C. Hsieh** and **C.-C. Wang**, A homophonic DES 66 (1998) 317
Hsieh, Y.-C., *see* **Hsieh, T.-M.** 66 (1998) 317
Hsu, L.-H., *see* **Sung, T.-Y.** 66 (1998) 201

Isozaki, H., *see* **Okuno, H.G.** 66 (1998) 195
Ito, H. and **M. Yokoyama**, Linear time algorithms for graph search and connectivity determination on complement graphs 66 (1998) 209

Jhon, C.S., *see* **Kim, J.-S.** 66 (1998) 247
Jullien, G.A., *see* **Dimitrov, V.S.** 66 (1998) 155

Kameda, T., *see* **Suzuki, I.** 66 (1998) 49

Elsevier Science B.V.

Kim, J.-S., S. Ha and **C.S. Jhon**, Relaxed barrier synchronization for the BSP model of computation on message-passing architectures 66 (1998) 247
Kim, S. and **I. Chung**, Application of the special Latin square to a parallel routing algorithm on a recursive circulant network 66 (1998) 141
Kim, S.-H., *see* **Shin, C.-S.** 66 (1998) 133
Kim, S.K., *see* **Shin, C.-S.** 66 (1998) 133
Kranakis, E., *see* **Czyzowicz, J.** 66 (1998) 125
Kranakis, E., *see* **Diks, K.** 66 (1998) 181
Krumke, S.O. and **H.-C. Wirth**, On the minimum label spanning tree problem 66 (1998) 81
Krumke, S.O., *see* **Schwarz, S.** 66 (1998) 291
Kwiatkowska, M., *see* **Baier, C.** 66 (1998) 71

Leonardi, S., *see* **Feuerstein, E.** 66 (1998) 175
Li, J., *see* **Luke, E.A.** 66 (1998) 223
Lin, C.-Y., *see* **Sung, T.-Y.** 66 (1998) 201
Litow, B. and **B. Mans**, A note on the Ádám conjecture for double loops 66 (1998) 149
Low, C.P., A fast search algorithm for the quorumcast routing problem 66 (1998) 87
Luccio, F.L., Almost exact minimum feedback vertex set in meshes and butterflies 66 (1998) 59
Luke, E.A., **I. Banicescu** and **J. Li**, The optimal effectiveness metric for parallel application analysis 66 (1998) 223

Maggs, B.M. and **E.J. Schwabe**, Real-time emulations of bounded-degree networks 66 (1998) 269
Makris, C. and **A. Tsakalidis**, Algorithms for three-dimensional dominance searching in linear space 66 (1998) 277
Mändoiu, I.I., Optimum extensions of prefix codes 66 (1998) 35
Mans, B., *see* **Litow, B.** 66 (1998) 149
Marchetti-Spaccamela, A., *see* **Feuerstein, E.** 66 (1998) 175
Mehlhorn, K., *see* **Althaus, E.** 66 (1998) 109
Miller, W.C., *see* **Dimitrov, V.S.** 66 (1998) 155
Minato, S., *see* **Okuno, H.G.** 66 (1998) 195
Miyadera, Y., K. Anzai, H. Unno and **T. Yaku**, Depth-first layout algorithm for trees 66 (1998) 187
Mizuno, M. and **M. Nesterenko**, A transformation of self-stabilizing serial model programs for asynchronous parallel computing environments 66 (1998) 285
Molter, U.M., *see* **Cabrelli, C.A.** 66 (1998) 161
Moon, S.-J., *see* **Ha, J.-C.** 66 (1998) 105

Nagavamsi, P., *see* **Chang, M.-S.** 66 (1998) 65
Nash, J., Scalable and predictable performance for irregular problems using the WPRAM computational model 66 (1998) 237
Nesterenko, M., *see* **Mizuno, M.** 66 (1998) 285

Okuno, H.G., S. Minato and **H. Isozaki**, On the properties of combination set operations 66 (1998) 195

Pandu Rangan, C., *see* **Chang, M.-S.** 66 (1998) 65
Pelc, A., *see* **Diks, K.** 66 (1998) 181
Pulleyblank, W.R., *see* **Fekete, S.P.** 66 (1998) 171

Rabinovich, A., Non-elementary lower bound for Propositional Duration Calculus 66 (1998) 7
Rhee, C., On the chromatic index of graphs with $2m + 1$ vertices and $2m^2$ edges 66 (1998) 115
Rosen, J.B., *see* **Xue, G.** 66 (1998) 127
Ružička, P., *see* **Diks, K.** 66 (1998) 181

Sakurai, K., *see* **Dannoura, E.** 66 (1998) 27
Salhi, A., H. Glaser and **D. De Roure**, Parallel implementation of a genetic-programming based tool for symbolic regression 66 (1998) 299
Santoro, N., *see* **Feuerstein, E.** 66 (1998) 175
Sato, T., Surjective linear cellular automata over $\mathbb{Z}_m$ 66 (1998) 101
Schwabe, E.J., *see* **Maggs, B.M.** 66 (1998) 269
Schwarz, S. and **S.O. Krumke**, On budget-constrained flow improvement 66 (1998) 291
Shimozono, S., K. Hirata and **A. Shinohara**, On the hardness of approximating the minimum consistent acyclic DFA and decision diagram 66 (1998) 165
Shin, C.-S., S.K. Kim, S.-H. Kim and **K.-Y. Chwa**, Algorithms for drawing binary trees in the plane 66 (1998) 133
Shin, S.-Y., *see* **Baek, N.** 66 (1998) 119
Shinohara, A., *see* **Shimozono, S.** 66 (1998) 165
Shmueli, O., *see* **Gavril, F.** 66 (1998) 1
Simon, J. and **J.-M. Wierum**, The Latency-of-Data-Access model for analyzing parallel computation 66 (1998) 255
Sun, S., *see* **Xue, G.** 66 (1998) 127
Sung, T.-Y., C.-Y. Lin, Y.-C. Chuang and **L.-H. Hsu**, Fault tolerant token ring embedding in double loop networks 66 (1998) 201
Suzuki, I., M. Yamashita, H. Umemoto and **T. Kameda**, Bushiness and a tight worst-case upper bound on the search number of a simple polygon 66 (1998) 49

Thomborson, C.D., The economics of large-memory computations 66 (1998) 263
Tsakalidis, A., *see* **Makris, C.** 66 (1998) 277

Umemoto, H., *see* **Suzuki, I.** 66 (1998) 49
Unno, H., *see* **Miyadera, Y.** 66 (1998) 187
Urrutia, J., *see* **Czyzowicz, J.** 66 (1998) 125

Vaccaro, U., *see* **De Marco, G.** 66 (1998) 321

Wagner, K.W., A note on parallel queries and the symmetric-difference hierarchy 66 (1998) 13
Wang, C.-C., *see* **Hsieh, T.-M.** 66 (1998) 317
Wang, F.-J., *see* **Chen, J.-L.** 66 (1998) 309

Wegener, I., *see* **Bollig, B.** 66 (1998) 53
Wierum, J.-M., *see* **Simon, J.** 66 (1998) 255
Wirth, H.-C., *see* **Krumke, S.O.** 66 (1998) 81

Xue, G., **S. Sun** and **J.B. Rosen**, Fast data transmission and maximal dynamic flow 66 (1998) 127

Yaku, T., *see* **Miyadera, Y.** 66 (1998) 187
Yamashita, M., *see* **Suzuki, I.** 66 (1998) 49
Yeh, Y.-S., *see* **Hsieh, T.-M.** 66 (1998) 317
Yokoyama, M., *see* **Ito, H.** 66 (1998) 209